

Title (en)

ORGAN MODEL CONTAINING ELASTIC PASSAGE AND METHOD FOR PRODUCING THE SAME

Title (de)

ORGANMODELL MIT ELASTISCHEM DURCHGANG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MODÈLE D'ORGANE CONTENANT UN PASSAGE ÉLASTIQUE ET SON PROCÉDÉ DE PRODUCTION

Publication

**EP 4303854 A1 20240110 (EN)**

Application

**EP 23183562 A 20230705**

Priority

CN 202210797760 A 20220706

Abstract (en)

An organ model (6) containing an elastic passage (4) and a method for producing the same are disclosed. The method includes: producing a first tissue mold (1) and an elastic second tissue mold (2); coating the first tissue mold (1) with a first tissue material to produce an elastic first artificial tissue (4); positioning the first artificial tissue (4) in the second tissue mold (2); introducing a gelatinous second tissue material into the second tissue mold (2) to wrap the first artificial tissue (4); making the first artificial tissue (4) have a first pressure value; applying a negative-pressure debubbling step to the second tissue material; applying a freezing-and-thawing step to the second tissue material to form a second artificial tissue (6), wherein during thawing of the freezing-and-thawing step, a depressurizing-and-pressurizing step is applied to the first artificial tissue (4); and removing the second tissue mold (2).

IPC 8 full level

**G09B 23/30** (2006.01)

CPC (source: CN EP US)

**B29C 33/3842** (2013.01 - US); **B29C 41/02** (2013.01 - US); **B29C 69/02** (2013.01 - CN); **G09B 23/30** (2013.01 - EP); **G09B 23/303** (2013.01 - CN US); **B29L 2031/7532** (2013.01 - CN US); **B29L 2031/7534** (2013.01 - CN)

Citation (applicant)

- CN 105719550 A 20160629 - WANG LUO, et al
- JP 2016139069 A 20160804 - DAINIPPON PRINTING CO LTD, et al

Citation (search report)

- [YA] CN 205068965 U 20160302 - YU ZHIYONG
- [YA] US 2008076101 A1 20080327 - HYDE GREGORY [US], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**EP 4303854 A1 20240110**; CN 117400558 A 20240116; US 2024013680 A1 20240111

DOCDB simple family (application)

**EP 23183562 A 20230705**; CN 202210797760 A 20220706; US 202318346428 A 20230703